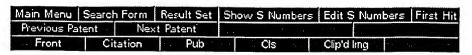
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JP407061803A

Mar. 7, 1995

L13: 10 of 12

PRODUCTION OF FULLERENE AND

CARBON NANOTUBE

INVENTOR:

TANAKA, YUSUKE

MATSUMOTO, YOSHINARI MIZUTANI, TADAYASU

APPLICANT:

NEC CORP

APPL NO: DATE FILED:

JP 05211662 Aug. 26, 1993

INT-CL:

<u>C</u> <u>01</u> <u>B31</u> /<u>02</u>; <u>D</u> <u>01</u> <u>F9</u> /<u>12</u>

ABSTRACT:

PURPOSE: To synthesize fullerene and carbon nanotubes with good mass productivity.

CONSTITUTION: This method for synthesizing fullerene and comprises making Ar gas flow through the interior of a reactional tube 1 made of quartz glass, making a high-frequency electric current flow through an induction coil 3 wound around the periphery thereof under ≥ 100Torr pressure, producing a thermal plasma 4, feeding powder 6 of carbon into the thermal plasma 4, evaporating and recombining the powder. Since the thermal plasma 4 produced by the high-frequency induction has a wide plasma region at a high temperature, a large amount of the carbon powder 6 can instantaneously be evaporated to synthesize large amounts of the fullerene and carbon nanotubes in a short time.

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WO009609246A1

Mar. 28, 1996

L12: 6 of 10

OPENING AND FILLING

CARBON

NANOTUBES

INVENTOR:

GREEN, MALCOLM LESLIE HODDER (GB)

TSANG, SHIK CHI (GB)

APPLICANT:

ISIS INNOVATION (GB)

GREEN MALCOLM LESLIE HODDER (GB)

TSANG SHIK CHI (GB)

APPL NO:

GB 09502235 Sep. 20, 1995

DATE FILED: PRIOR-AP:

GB 09418937A Sep. 20, 1994

INT-CL:

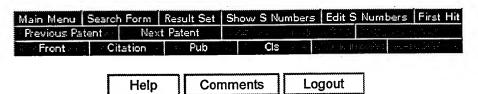
[6] C 01 B31 /02

EUR-CL:

C01B31/02

ABSTRACT:

nanotubes open on at least one end -A method of making carbon in nitric acid. Open-ended involves heating capped nanotubes nanotubes may be empty or may contain deposits of metal oxides or metals or proteins.



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JP410265208A

Oct. 6, 1998

L13: 3 of 12

PRODUCTION OF

CARBON

NANOTUBE AND

CARBON

NANOTUBE FILM

INVENTOR: APPLICANT: KUSUNOKI, MICHIKO

FINE CERAMICS CENTER

APPL NO:

JP 09087518

DATE FILED: Mar. 21, 1997 <u>C 01 B31 /02; D 01 F9 /127</u>

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a new producing method of a novel nanotube and a <u>carbon</u> nanotube film composed of many numbers of the carbon nanotubes oriented in a film thickness direction.

SOLUTION: A nanotube 31 is formed on a SiC 1 of a part 11, carbon where a silicon atom is removed by heating the SiC 1 under a vacuum. The carbon nanotube 31 having high purity is produced at a high yield by this method. Moreover since the carbon nanotube 31 formed by the method has a tendency to orient in the perpendicular direction to the surface of SiC crystal, a high oriented nanotube film 3 composed of the nanotubes is obtained. The nanotube film 3 with a large area is easily produced by this method.

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